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1. 16.1-FH1: Technological Enhancements to Improve and Expand Casual Carpooling Systems

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

Traditional carpooling declined in the United States from a 20% mode share in 1980 to 13% in 1990, and then to 10% in 2004, after which it has remained stable at this low level. A variation on the traditional carpool, casual carpooling, occurs in three U.S. metropolitan areas (Washington, D.C., San Francisco, and Houston) and may be an important strategy to help reverse this downward trend. While ...

SBIR Department of Transportation

2. 16.1-FH2: Connected Bicycle: Communicating with Vehicles and Infrastructure

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

The connected vehicles program is a multimodal U.S. DOT initiative that applies the potentially transformative capabilities of wireless technology to make surface transportation safer, smarter, and greener. One of the emerging technologies for vehicle-to-infrastructure (V2I) and vehicle-tovehicle (V2V) communication is Dedicated Short Range Communications (DSRC). DSRC can support communication bet ...

SBIR Department of Transportation

3. 16.1-FT1: Pedestrian and Cyclist Detection Devices for Transit Buses

Release Date: 10-14-2015Open Date: 10-14-2015Due Date: 12-16-2015Close Date: 12-16-2015

Data are limited about the full extent of bicycle and pedestrian use, but the evidence indicates that the use of these modes is on the rise. Data from the National Household Travel Survey (NHTS) from 2001 and 2009, a period during which bicyclist and pedestrian fatalities was decreasing, identified a slight increase in walking, and almost no change in the number of people bicycling. Although NHTS ...

SBIR Department of Transportation

4. MDA15-007: Open Framework Planner with Embedded Training

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Human Systems OBJECTIVE: Design an open, modular framework for a missile defense planner such that a training system can be embedded in it, allowing for underlying components to be rapidly inserted (e.g. mapping engines and visualization tools). DESCRIPTION: The goal of this topic is to investigate and demonstrate the feasibility and utility of building an integrated ...

SBIR Missile Defense AgencyDepartment of Defense

5. MDA15-009: Irrefutable Tamper Evidence

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Sensors, WeaponsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4 ...

SBIR Missile Defense AgencyDepartment of Defense

6. MDA15-011: Self-Building/Establishing Networks

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Develop and implement an innovative hardware and/or software solution that, in response to user or system command, can detect and identify electronic network (wired and/or wireless) infrastructure components, employ state of the art methods and technologies to automatically or under human-in-the-loop control configure the network components, ...

SBIR Missile Defense AgencyDepartment of Defense

7. MDA15-012: Inline Threat Generation for Modeling and Simulation

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information SystemsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section ...

SBIR Missile Defense AgencyDepartment of Defense

8. MDA15-013: Innovative Ways to Shorten System Level Simulation Integration Time

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): Information Systems OBJECTIVE: Provide the government with a set of capabilities that significantly reduces the time and effort associated with integrating complex system simulations. DESCRIPTION: As missile defense simulations become more complex, integration efforts also become increasingly more complex, resulting in significantly increased software integration time ...

SBIR Missile Defense AgencyDepartment of Defense

9. MDA15-015: High Power Fiber Laser Tap Couplers for Phase and Polarization Control

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): WeaponsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of ...

SBIR Missile Defense AgencyDepartment of Defense

10. MDA15-016: General Wave-Optics Based Scaling Laws for Multiple/Obscured Apertures

Release Date: 08-27-2015Open Date: 09-28-2015Due Date: 10-28-2015Close Date: 10-28-2015

TECHNOLOGY AREA(S): WeaponsThe technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordance with section 5.4.c.(8) of ...



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